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Application Number	10/078,839					
Filing Date	FEBRUARY 19, 2002					
First Named Inventor	JAMES D. VÍCK, JR.					
Group Art Unit	3672					
Examiner Name	UNASSIGNED					
Attorney Docket Number	2002-IP-006435					

	U.S. PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	U.S. Patent I	Cocument Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear					
		5,409,031		McGILL et al.	04-25-95						
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	FOREIGN PATENT DOCUMENTS											
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Complete if Known 10/078,839 Application Number FEBRUARY 19, 2002 Filing Date JAMES D. VICK JR. **First Named Inventor** 3672 Group Art Unit UNASSIGNED **Examiner Name** 2002-IP-006435 Attorney Docket Number

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	ĺ					Group Art Unit		3672
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	FOREIGN PATENT DOCUMENTS										
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Sheet 1 of 2

Complete if Known		
Application Number	10/078,839	
Filing Date	FEBRUARY 19 2002	
First Named Inventor	JAMES D. VICK R. V	
Group Art Unit	3672	
Examiner Name	UNAS \$ 4 A 2 2002	
Attorney Docket Number	2002-IP-006435	

U.S. PATENT DOCUMENTS U.S. Patent Document Date of Publication of Name of Patentee or Applicant xamine Cite Where Relevant Kind Code **Cited Document** of Cited Document Passages or Relevant Initials' Number MM-DD-YYYY (if known) Figures Appear 6,302,210 CROW et al. 10-16-01 ANGLE 09-05-00 6,112,809 CARMODY et al. 6,041,857 03-28-00 5,917,774 WALKOW et al. 06-29-99 HALLIDY 5,734,209 03-31-98 5,310,012 CENDRE et al. 05-10-94 05-30-72 3,666,030 BOHN et al.

	FOREIGN PATENT DOCUMENTS							
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